

WHAT IS CLAIMED IS:

1. A blood pressure monitor comprising:

a blood pressure data storage unit for storing blood pressure data groups each of which includes at least one blood pressure datum measured under one measuring condition per measuring condition; and

an evaluating quantity calculating unit for calculating an evaluating quantity based on interrelation between the blood pressure data in the blood pressure data groups and the blood pressure data in another blood pressure data groups with different measuring condition.

2. The blood pressure monitor according to claim 1, further comprising an intra-group average calculating unit for calculating intra-group averages of blood pressure data in the blood pressure data groups for the blood pressure data groups with the different measuring conditions.

3. The blood pressure monitor according to claim 1, wherein the evaluating quantity calculating unit calculates the evaluating quantity based on an average value and a different value of the intra-group averages in the blood pressure data groups.

4. The blood pressure monitor according to claims 1, wherein the evaluating quantity is related with a degree of a risk of cardiovascular diseases.

5. The blood pressure monitor according to any one of

claims 2 to 4, wherein the measuring conditions are a plurality of specified time zones.

6. The blood pressure monitor according to claim 5, wherein the plural specified time zones include a first time zone which starts from about two hours before bedtime and ends until two hours after bedtime, and a second time zone which starts from about two hours before uprising and ends until about two hours after uprising.

7. The blood pressure monitor according to claim 5, further comprising:

a clock unit for outputting time information,

wherein the blood pressure data storage unit discriminates the measuring conditions for each blood pressure data based on the time information output from the clock unit and stores the blood pressure data according to measuring conditions.

8. The blood pressure monitor according to claims 1, further comprising:

an input unit through which a user inputs the measuring conditions,

wherein the blood pressure data storage unit stores the blood pressure data based on the measuring conditions input from the input unit.

9. The blood pressure monitor according to any one of claims 2 to 3, further comprising a diagnostic unit for providing at least one or more threshold values on at least one of primary

parameter axes obtained as intra-group averages of a plurality of blood pressure data groups with the different measuring conditions or average values and different values of the intra-group averages, defining a plurality of primary parameter areas, which are prescribed by the threshold values, in a primary parameter multi-dimensional area composed of the primary parameter axes, and determining or displaying which area of the primary parameter areas where actual values of primary parameters obtained based on the measured blood pressure data are present, so as to make a diagnosis based on the blood pressure data.

10. The blood pressure monitor according to claim 9, further comprising:

a primary parameter area display unit for displaying the primary parameter multi-dimensional area,

wherein the primary parameter area display unit displays the actual values of the primary parameters on the primary parameter multi-dimensional area.

11. The blood pressure monitor according to claim 10, further comprising:

a primary parameter set storage unit for storing a plurality of primary parameter sets which are composed of the intra-group averages of the blood pressure data groups with the different measuring conditions or pairs of the average values and the different values of the intra-group averages,

wherein the primary parameter area display unit displays

the primary parameter sets on the primary parameter multi-dimensional area simultaneously.

12. The blood pressure monitor according to claim 9, further comprising:

a cardiovascular disease risk defining unit in which a degree of digitized cardiovascular disease risk is associated with the primary parameter areas, respectively,

wherein the risk calculating unit determines or displays the cardiovascular disease risk based on the determination as to which area of the primary parameter areas where the actual values of the primary parameters are present.

13. The blood pressure monitor according to claim 9, wherein the threshold values provided on the primary parameter axes obtained as the average values of the intra-group averages in the blood pressure data groups are threshold values of systolic blood pressure, and they are about 135 mmHg.

14. The blood pressure monitor according to claim 9, wherein the different values of the intra-group averages in the blood pressure data groups are increments of systolic blood pressure measured at time before and after uprising with respect to systolic blood pressure measured at time before bedtime, and the threshold values provided on the primary parameter axes obtained as the different values of the intra-group averages are about 20 mmHg.

15. The blood pressure monitor according to claim 3,

further comprising:

a cardiovascular disease risk calculating function unit for estimating a degree of cardiovascular disease risk in a numerical manner by using both the average values and the different values of the intra-group averages in the blood pressure data groups as input variables,

wherein the cardiovascular disease risk calculating function unit calculates or displays the cardiovascular disease risk when the actual values of the average values and the different values of the intra-group averages are obtained.

16. A cardiovascular disease risk analyzing program for allowing a computer to execute:

the obtaining step of obtaining blood pressure data;

the blood pressure data storing step of storing blood pressure data groups including at least one blood pressure datum measured under same measuring conditions in the obtained blood pressure data into a storage section according to measuring conditions; and

the evaluating quantity calculating step of calculating an evaluating quantity based on interrelation between the blood pressure data in the blood pressure data group and the blood pressure data in another blood pressure data group with different measuring condition.

17. The cardiovascular disease risk analyzing program according to claim 16 for allowing the computer to further execute

the intra-group average calculating step of calculating intra-group averages of the blood pressure data in the blood pressure data groups for the blood pressure data groups with the different measuring conditions.

18. The cardiovascular disease risk analyzing program according to claim 16 wherein at the evaluating quantity calculating step, the evaluating quantity is calculated based on average values and different values of the intra-group averages in the blood pressure data groups.

19. The cardiovascular disease risk analyzing program according to claim 16, wherein the evaluating quantity relates to a degree of the cardiovascular disease risk.

20. The cardiovascular disease risk analyzing program according to any one of claims 17 to 19, wherein the measuring conditions are a plurality of specified time zones.

21. The cardiovascular disease risk analyzing program according to claim 20, wherein the specified time zones include a first time zone which starts from about two hours before bedtime and ends until about two hours after bedtime, and a second time zone which starts from about two hours before uprising and ends until about two hours after uprising.

22. The cardiovascular disease risk analyzing program according to claim 20, for allowing the computer to further execute the clock step of outputting time information,

wherein at the blood pressure data storing step, the

measuring conditions are discriminated according to the blood pressure data based on the time information output at the clock step, and the blood pressure data are stored into the storage section according to the measuring conditions.

23. The cardiovascular disease risk analyzing program according to claim 16, for allowing the computer to further execute the input step of receiving the measuring conditions from a user,

wherein at the blood pressure data storing step, the blood pressure data are stored based on the measuring conditions input at the input step into the storage section according to the measuring conditions.

24. The cardiovascular disease risk analyzing program according to any one of claims 17 to 18, for allowing the computer to further execute the diagnostic step of providing one or more threshold values on at least one of primary parameter axes obtained as the intra-group averages in the blood pressure data groups with the different measuring conditions or the average values and the different values of the intra-group averages, defining a plurality of primary parameter areas which are prescribed by the threshold values in a primary parameter multi-dimensional area composed of the primary parameter axes, and determining or displaying as to which area of the primary parameter areas where actual values of primary parameters obtained based on the measured blood pressure data are present

so as to make a diagnosis based on the blood pressure data.

25. The cardiovascular disease risk analyzing program according to claim 24, for allowing the computer to further execute the primary parameter area display step of displaying the primary parameter multi-dimensional area,

wherein at the primary parameter area display step, the actual values of the primary parameters are displayed on the primary parameter multi-dimensional area.

26. The cardiovascular disease risk analyzing program according to claim 25, for allowing the computer to further execute the primary parameter set storing step of storing a plurality of primary parameter sets composed of the intra-group averages in the blood pressure data groups with the different measuring conditions or pairs of the average values and the different values of the intra-group averages,

wherein at the primary parameter area display step, the primary parameter sets are displayed on the primary parameter multi-dimensional area simultaneously.

27. The cardiovascular disease risk analyzing program according to claim 24, for allowing the computer to further execute the cardiovascular disease risk defining step of associating a degree of the digitized cardiovascular disease risk with the primary parameter areas, respectively,

wherein at the risk calculating step, the cardiovascular disease risk is determined or displayed based on the

determination as to which area of the primary parameter areas where the actual values of the primary parameters are present.

28. The cardiovascular disease risk analyzing program according to claim 24, wherein the threshold values provided on the primary parameter axes obtained as the average values of the intra-group averages in the blood pressure data groups are threshold values of systolic blood pressure and are about 135 mmHg.

29. The cardiovascular disease risk analyzing program according to claim 24, wherein the different values of the intra-group averages in the blood pressure data groups are increments of systolic blood pressure measured at time before and after uprising with respect to systolic blood pressure measured at time before bedtime, and the threshold values provided on the primary parameter axes obtained as the different values of the intra-group averages are about 20 mmHg.

30. The cardiovascular disease risk analyzing program according to claim 18, for allowing the computer to further execute the cardiovascular disease risk calculating function step of estimating a degree of the cardiovascular disease risk in a numerical manner by using both the average values and the different values of the intra-group averages in the blood pressure data groups as input variables,

wherein at the cardiovascular disease risk calculating function step, when the actual values of the average values and

the different values of the intra-group averages are obtained,
the cardiovascular disease risk is calculated or displayed.